

EF-2000 Systems, abbreviations:

Displays:

MIDS: Multifunction Information Distribution System
MHDD: Multifunction Head Down Displays
WP: Warning Panel

Miscellaneous:

HUD: Head Up Display
FCS: Flight Control System
APU: Auxiliary Power Unit
MSOC: Molecular Sieve Oxygen Concentrator
DVI: Direct Voice Input
DVO: Direct Voice Output (Voice warning system)
HOTAS: Hands On Throttle And Stick
VTAS: Voice Throttle and Stick
FBW: Fly By Wire
CADC: Central Air Data Computer
TACAN: Tactical Air Navigation
MMD: Moving Map Display

NIS: NATO Identification System
INT: Interrogator
XPDR: Transponder

GSS: Ground Support System:

ESS: Engineering Support System
MSS: Mission Support System
GLU: Ground Loading and Data transfer Unit

DASS: Defensive Aids Sub System:

LRU's: Line Replacable Units (warning systems)
DAC: Defensive Air Computer (Evaluates information and checks systems)

ESM: Electronic Support Measures: Sensors aided by:
RWR: Radar Warning Receiver (Sensors that discover Radar emitting)
LWR: Laser Warning Receiver (Sensors that discover targeting own AC with Laser)
MAW: Missile Approach Warner (Warning for incoming missiles)

Chaff/Flares: Dispensers
TRD: Towed Radar Decoy
ECM: Electronic Counter Measures

AIS: Attack Identification System:

AC: Avionics Computer
NC: Navigation Computer
EMCON: Emission Control (Emission of necessary systems only)

IFF: Identification Friend or Foe

Identifies targets and friends and identifies friends for allies

CAPTOR Radar:

DAS: Data Adaptive Scanning
STT: Single Target track
NCTR: Non Cooperative Target Recognition
ECM: Electronic Counter Measures
ECCM: Electronic Counter Counter Measures

CAPTOR A/A modes:

BVR: Beyond Visible Range:
- RWS: Range While Scan
- TWS: Track While Scan
- VS: Velocity Search

CAC: Close Air Combat:

- HUD Acquisition
- Boresight Acquisition
- Vertical Acquisition
- Slaved Acquisition

CAPTOR A/G modes:

- SSS: Sea Surface Search
- DBS: Doppler Beam Sharpening
- VS: Velocity Search
- GMTI: Ground Moving target Indication
- GMTT: Ground Moving target Track
- TA: Terrain Avoidance
- FTT: Fixed Target Track

PIRATE: Passive Infrared Airborne Tracking Equipment

PIRATE A/A modes:

MTT: Multi Target Track
SACQ: Slaved Acquisition
STT: Single Target track
STTI: Single Target track Identification

PIRATE A/G mode:

FLIR: Forward Looking Infrared

RAMPSTART Checklist EF-2000 Typhoon

Pre-start

1. Parking brake to ON - view 2
2. BATT switch to ON - view 6
3. Push PAGE button on warning panel - view 4
4. Set MHDD's to ON - view 1
5. Set GLU Data cartridge turning switch to LIVE - view 6

Fuel and air to engine

6. Set Left Boost pump to ON - view 6
7. Set right boost pump to ON - view 6
8. Set MSOC switch to ON - view 6
9. Set AIR drive to AUTO - view 6

Start-up engine

(Use keys ctrl-o for selecting left engine)

10. Throttle to idle
11. APU button to RUN - view 6
12. RPM at 20% - HOTAS
13. Throttle to 50% - HOTAS
14. Set START/STOP switch to START - view 6
15. Throttle to 70% - HOTAS
16. If RPM is at 60% throttle to idle - HOTAS

(Use keys ctrl-o for selecting right engine,
and repeat steps 10-16, then use keys ctrl-o for selecting both engines)

Start-up of electronics and avionics

17. Enable Flight Control System (FCS) - view 1
18. Set MIDS to ON - view 1
19. Set GPS switch to ON - view 6
10. Set Stores management(STOR) to ON - view 1
21. Set INS to ALIGN NORM - view 1

22. Set RADAR to ON - view 6
23. Set RADAR ALT to STBY - view 6
24. Set HUD to ON with brightness turning knob - view 1
25. Set Left and right Gear Box (GBOX) to ON - view 5
26. Set MIDS A and B volume as appropriate - view 5
27. Set MSSL volume as appropriate - view 5
28. Set I/C volume as appropriate - view 5

Countermeasures

29. Set DASS power to ON - view 1
30. Set transponder (XPDR) switch to ON - view 6
31. Set MAW switch and W/S NTR switch to ON - view 6
32. Set Chaff power to ON - view 1
33. Set Flares power to ON - view 1
34. Select Program (PRGM) according to threats - view 1
35. Select MODE (MODE) according to threats - view 1

Prepare for taxi

- 36. Set ejection seat to ARMED - view 4
- 37. Set external lights Master button to ON - view 4
- 38. Set Navigation lights to BRT - view 4
- 39. Set Anti Collision lights to WHITE - view 4
- 40. Set formation lights to ON - view 4
- 41. Set LANDING/TAXI lights to TAXI - view 2
- 42. Close backup instruments cover - view 1
- 43. Enable Nose Wheel Steering(NWS) (keys shift-/) HOTAS

Initiating taxi and take-off

- 44. Set INS ALIGN from NORM to NAV - view 1
- 45. Set RADAR ALT to ON - view 6
- 46. Set Parking brake to OFF - view 2
- 47. Taxi to runway according to ATC commands

